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NEW LITERATURE ON COMMUNICATIONS PROBLEMS

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Herald], No 10,
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Inside back cover

V. V. Yefimov, Usovershenstvovaniye detektornogo priyemnika "Komosomolets" [Improving the "Komsomolets" Crystal Set], Gosenergoizdat, Moscow-Leningrad, 1955, 16 pages (Mass Radio Library, No 223); 35 kopeks.

Intended for rural radio amateurs, the brochure describes several modifications of the "Komsomolets" crystal set with the provision of a low-frequency amplifier for the receiver or its conversion to a vacuum-tube receiver.

I. P. Zherebtsov, Tekhnika metrovykh voln [Metric-Wave Techniques], DOSAAF Press, Moscow, 1955, 182 pages; 4.80 rubles

An easily read presentation of the fundamentals of metric-wave techniques in sufficient detail for the radio amateur beginning work in this field. Contains discussions of oscillators and transmitters, receivers, antenna feeder arrangements, and measuring instruments for metric waves, as well as a discussion of the peculiarities of wave propagation in this range.

I. K. Kachan, A. P. Anisimov, M. M. Berestetskiy, D. A. Marchenko, and D. A. Rosenborg, Opory iz tsentrifugirovannogo zhelezobetona liniy elektroperedachi i liniy svyazi [Poles of Centrifugated Reinforced Concrete for Power-Transmission and Communications Lines], Grozniy Book Publishers, Grozniy, 1955, 112 pages; 1.95 rubles

Experience of the Energomontazhneft' Trust in the use of new designs of sectional poles of centrifugated reinforced concrete in the erection of power-transmission and communications lines. Discusses plant production of pole members of centrifugated reinforced concrete, the types, their design and calculation, and the execution of work in erecting lines on such poles. The book is intended for engineering-technical workers and skilled workers engaged in the construction of power-transmission and communications lines.

M. Knol' and B. Keyzan, Elektronno-luchevyye trubki c nakopleniyem zaryadov [Cathode-Ray Storage Tubes], Translation from English under editorial direction of M. M. Reysbeyn. Gosenergoizdat, Moscow-Leningrad, 1955, 160 pages; 5.20 rubles.

A monograph discussing the basic phenomena employed in cathode-ray storage tubes and describing tubes designed for the conversion of electrical signals to electrical signals, electrical signals to visible images, and light signals to electrical signals. The book is intended for engineers employed in the field of electronics and also for teachers and students of appropriate specialities.

G. G. Kostandi, Samodel'nyye ul'trakorotkovolnovyye pristavki i priyemniki [Homemade Ultrashort-Wave Tuners and Receivers], Gosenergoizdat, Moscow-Leningrad, 1955, 40 pages and one insert. (Mass Radio Library, No 221); 95 kopeks.

Describes designs of homemade ultrashort-wave tuners and receivers permitting reception of f-m broadcast transmissions and the audio component o of television transmission. The designs were developed by Leningrad radio amateurs G. G. Kostandi, V. V. Yakovlev, and D. N. Krasnolobov. The brochure is intended for radio amateurs familiar with construction and alignment of vacuum-tube receivers.

V. L. Lebedev, Radiopriyemnyye ustroystva [Radio Receivers], Second edition, revised and expanded. Svvaz'izdat. Moscow. 1955. 366 pages: 9 rubles.

A discussion of the primary physical processes occurring in radio receivers. The administration of educational institutions of the Ministry of Communications USSR has accepted the book as a textbook for electrical communications technicums.

V. V. Mikhaylov, Sovety radiolyubitelyu. Prakticheskiye ukazaniya po obrabotke razlichnykh materialov [Advice to the Radio Amateur. Practical Instructions for Working Various Metals], DOSAAF Press, Moscow, 1955, 63 pages; one ruble.

Intended for beginners and skilled radio-amateur designers, the book acquaints the reader with the principles of working metals and wood, with methods of using glues and paints, with the working of insulating materials, with methods of preparing printed circuits, etc.

M. K. Mosiyenko, Moya rabota v sel'skom otdelenii svyazi [My Work in the Rural Branch of Communications], Svyaz'izdat, Moscow, 1955, 16 pages; 20 kopeks.

The author of the brochure (leader of the Stepanovskiy communications section, Kustanay Oblast, in one of the largest regions undergoing cultivation of virgin and fallow lands) describes his experience in providing all forms of communications service for the population and production needs of a kolkhoz.

V. N. Roginskiy and A. D. Kharkevich, Releynyye skhemy v telefonii [Relay Circuits in Telephony], Svyaz'izdat, Moscow, 1955, 166 pages and 3 inserts; 6.65 rubles.

The theory of contact-relay circuits is discussed as well as its application to analysis and synthesis of relay circuits. Examples of synthesis and analysis of telephone circuits are presented. The book is intended for engineering-technical workers and students of higher technical schools.

V. M. Rodinov, Sbornik nomogramm po radiotekhnike [Collection of Nomograms on Radio Engineering], Second edition, revised and expanded. "Sovetskoye radio" Press, Moscow, 1955, 164 pages and 112 nomograms (in a separate cover); 19.50 rubles.

The collection contains 112 nomograms for different branches of radio engineering. The explanatory text prefacing the nomograms contains rules for use of the nomograms, examples of calculations, and in some cases the minimum necessary theoretical information.

G. A. Snitserev, Izmereniya pri remonte i nalazhivanii radiopriyemnikov [Measurements in Repairing and Aligning Radio Receivers], Svyaz'izdat, Moscow, 1955, 123 pages and 3 inserts; 2.70 rubles.

Measuring instruments used in the repair and alignment of radio receivers are described. The methods of using these instruments in inspecting and aligning a receiver are discussed. The book is intended for repair shop technicians and radio amateurs.

A. D. Frolov, Osnovnyye printsipy konstruirovaniya detaley massovoy i seriynoy radioapparatury [Basic Principles in Designing Components for Mass-Produced and Series-Produced Radio Equipment], Gosenergoizdat, Moscow-Leningrad, 1955, 342 pages; 11.30 rubles.

A discussion of the general principles of designing radio components for mass production and series production. Contains a detailed examination of problems associated with providing the best component designs from the technical and economic point of view. Typical designs of components are described and procedural instructions are given for their design. The book is intended for engineering-technical workers engaged in the development of mass-produced and series-produced radio equipment, and also for students of the radio engineering faculties of higher technical schools and technicum students.

A. A. Kharkevich, Ocherki obshchey teorii svyazi [Outlines of General Communications Theory], Gostekhizdat, Moscow, 1955, 268 pages; 8.45 rubles.

An orderly presentation of the complex of ideas constituting the "information theory" or the "statistical theory," which is considered as the basis of the techniques of electrical communications. 2 basic problems are discussed: the problem of increasing the efficiency of communications and the problem of increasing the reliability of communications. The book is intended for communications engineers, radio engineers, and engineers engaged in the field of remote measurement and remote control.

B. M. Tsarev, Kontaktnaya raznost' potentsialov i yeye vliyaniye na raboty elektrovakuumnykh priborov [The Contact Difference of Potential and Its Effect on the Operation of Vacuum-Tube Devices], Second edition, revised and expanded. Gostekhizdat, Moscow, 1955, 280 pages; 9.65 rubles.

A monograph containing a systematic discussion of the contact difference of potential and its effect on the operation of vacuum-tube devices. Intended for workers at scientific research institutes, laboratories, and production enterprises dealing with problems of the physics, production, and application of vacuum-tube devices.

G. S. Tsykin. Transformatory nizkoy chastoty. Teoriya, raschet i konstruirovaniye [Low-Frequency Transformers. Theory, Calculation, and Design]. Second edition. Svyaz' izdat, Moscow, 1955, 430 pages; 14.90 rubles.

A discussion of the problems of theory, calculation, and design of low-frequency transformers. The book contains much reference data on the materials used in these transformers.

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